

GECZY, Gyorgy

New process for the quantitative determination of vitamin A. Allattenyesztes 11 no.2:187-191 J1 *63.

1. Phylaxia Allami Oltoanyagtermelo Intezet, Budapest.

TOTH, B.; GECZY, G.; LAKITS, G.; BARSY, G.

Characteristic feathering disorder observed in chickens fed with vitamin D₃ deficient diet. Acta veter Hung 14 no.1:57-62 164.

1. Phylaxia State Serum Institute (Director: J. Molnar), Budapest, and State Institute of Hygiene (Director: T. Bakacs), Budapest.

HUNGARY

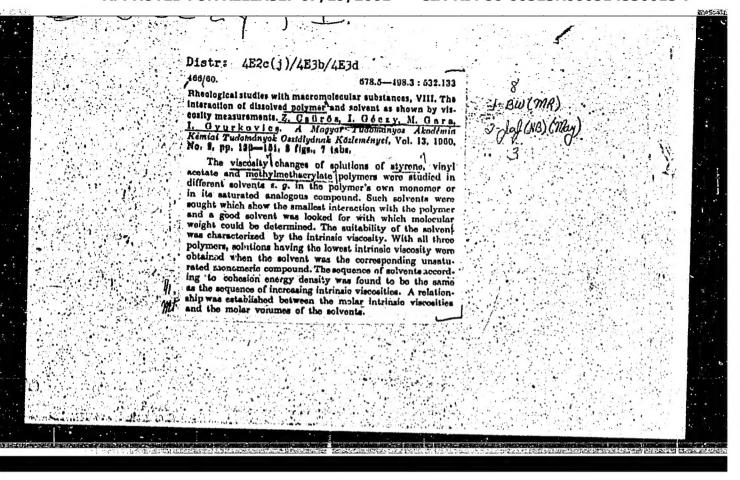
KISS, Jozsef, Dr. GECZY, Gyorgy, Dr. Central Head Station of Artificial Insemination (director: NESZAROS, Istvan, Dr., cand. of vet. sci.) (Kozponti Mesterseges Termekenyito Foallomas), and Phylaxia State Institute of Vaccine Production (director: MOLNAR, Jozsef, Dr.) (Phylaxia Allami Oltoanyagtermelo Intezet), Budapest.

"Examination of Standardized Sperm Diluents Produced in Hungary."

Budapest, Magyar Allatorvosok Lapja, Vol 21, No 11, Nov 66, pages 492-493.

Abstract: [Authors' English summary modified] In order to simplify and facilitate the work of laboratories of the artificial inseminating stations and to consolidate the results of inseminations, the domestic production of a standard bull-sperm diluent was judged to be necessary. In the course of production and testing of the domestically made experimental materials, the preparation marked Ph5 - containing 2.9% Na citrate (5 1/2 H₂O), 1 mg% KH₂PO₁, and 1% gelatine - was found to be better than the diluent used currently, which contains 2.9% Nacitrate (2 H₂O), and to be equal to the West German Spermasol-T both in laboratory and field tests. 2 Hungarian,

1/1

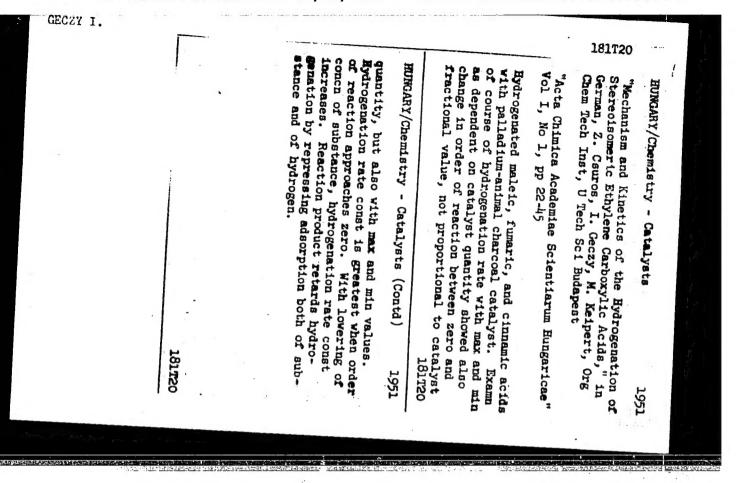


GECZY, I., dr.; BERCSENYI, L.Gy.; KOVACS, J.

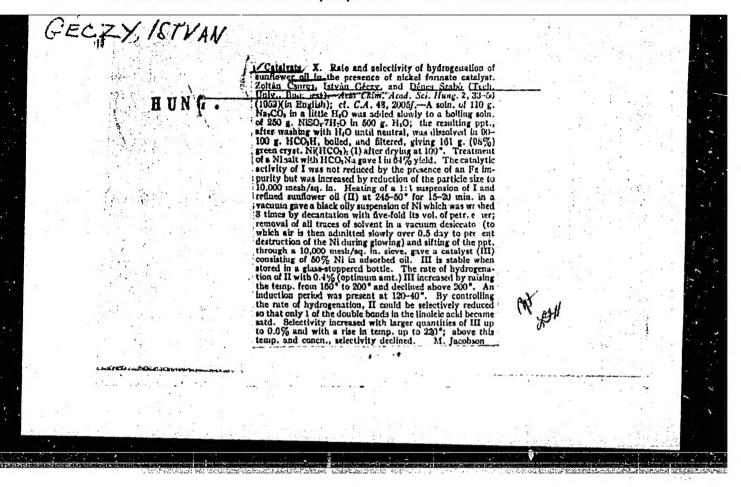
Testing the factors influencing the pigment fixation. Magy textil 16 no.10:462-465 0 '64.

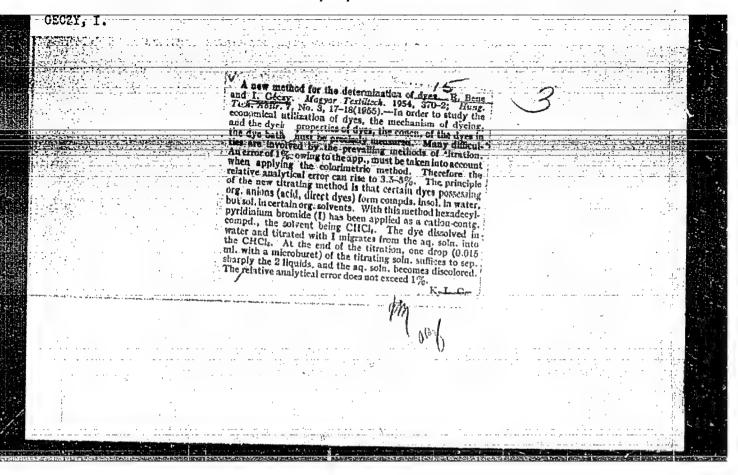
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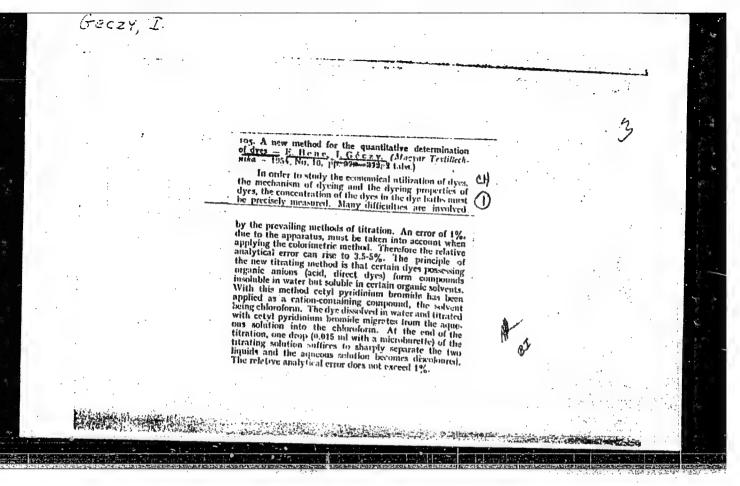
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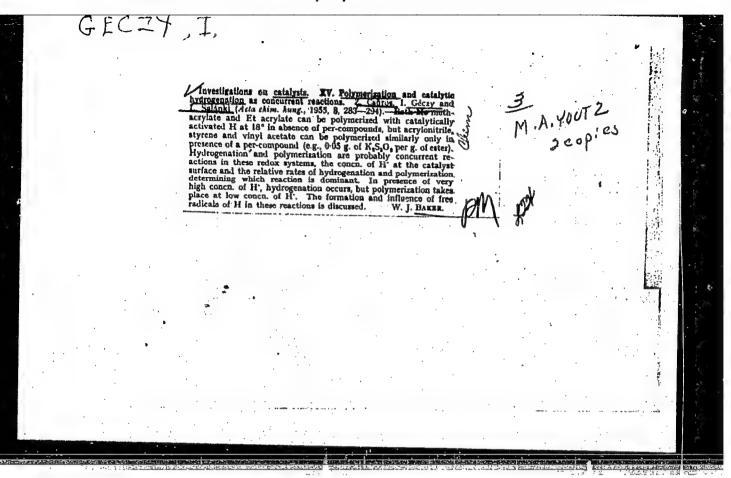


Hydrogen Fressure in the Kine' Catalytic Hydrogenations," in Ceczy, T. Nogradi, Org Chem' Sci, Budapest Acad Sci Hungaricae" Vol I, lase conditions. With respect to homese conditions. Modified coulese conditions. Modified coules and studied by systematic value and by hydrogenation visual the case of octene-2 without the case of octene-2 without the case of octene-2 without function.	ECZY I.		vent, max-min to monotonous	HUNGARY/Chem of substrate solvents. In	"Acta Chimica pp 168-181 Examd kinetics reaction of de pressure, and uct under the max-min curve	HUNGARY/Chemistry No. Role of the Hydr Mechanism of Cata Z. (Suros, I. Gec Inst, U Tech Sci,	
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GECZY, ISTUAN

HUNGARY/Chemistry of High-Molecular Substances.

I

Abs Jour: Ref. Zhur-Khimiya, No 11, 1958, 38484.

Author : Mondvai Imre, Geczy Istvan

Inst : Not given.

Title : Block Polymerization of Methacrylate with the Aid

of Systems of Initiator-Activators.

Orig Pub: Magyar Ind akad Kem tud oszt kozl, 1956, 7, No 2,

153-164.

Abstract: See RZhKhim, 1957, 41351.

Card : 1/1

GALLI, L.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514530015-7

HUNGARY/Organic Chemistry. General and Theoretical Problems of Organic Chemistry.

G-1

Abs Jour: Ref. Zhur.-Khimiya, No II, 1958, 36083.

Author : Csuros Z., Geczy I., Morgos J. Inst : Not given.

Inst : Not given.

Title : Study of Catalists. XIV. Catalitic Oxidation of N-Cymol

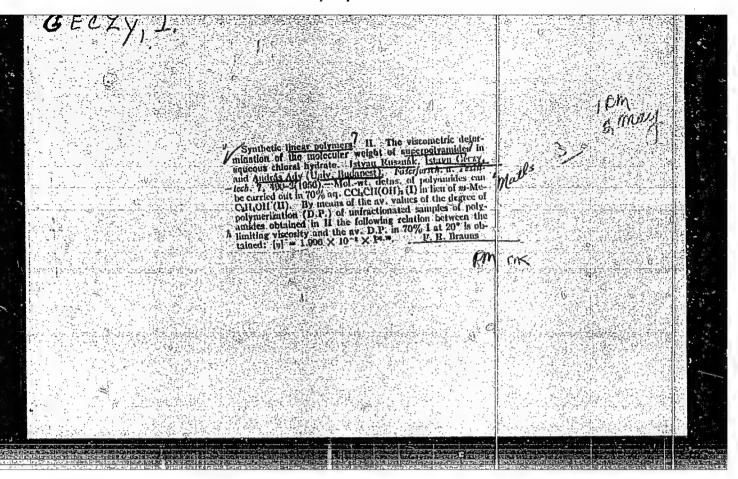
at Room Temperature.

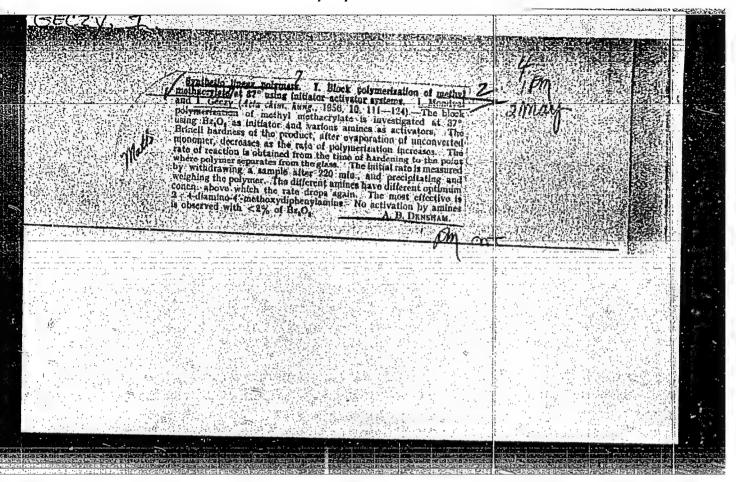
Orig Pub: Magyar Tud. akad. Kem. tud. oszt. kozl., 1956, 7,

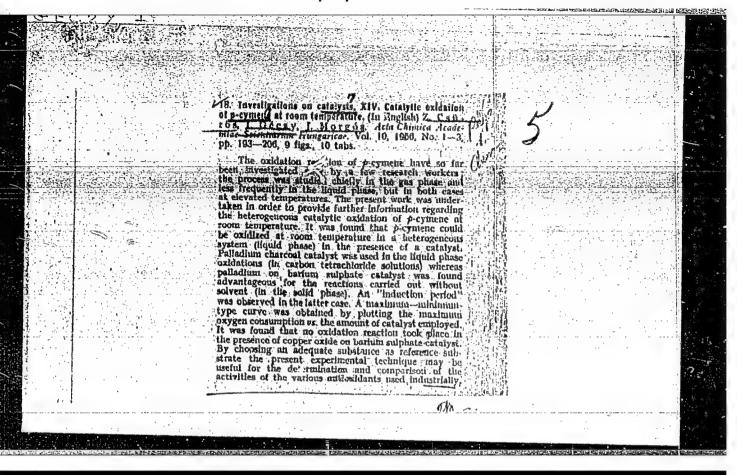
No 2, 199-211.

Abstract: No abstract.

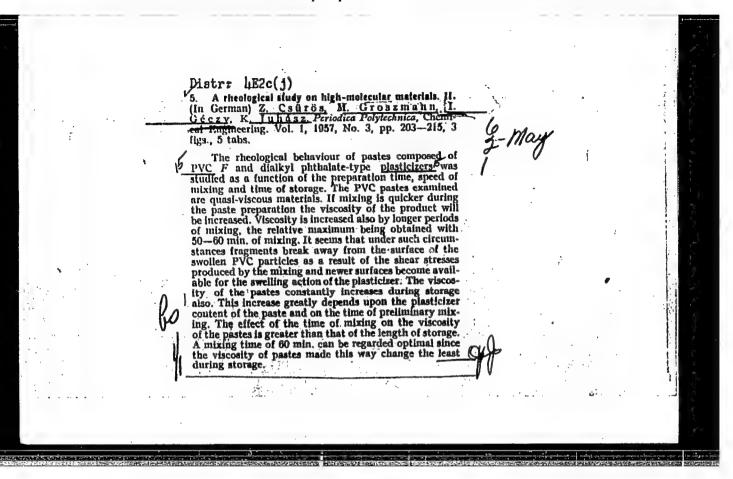
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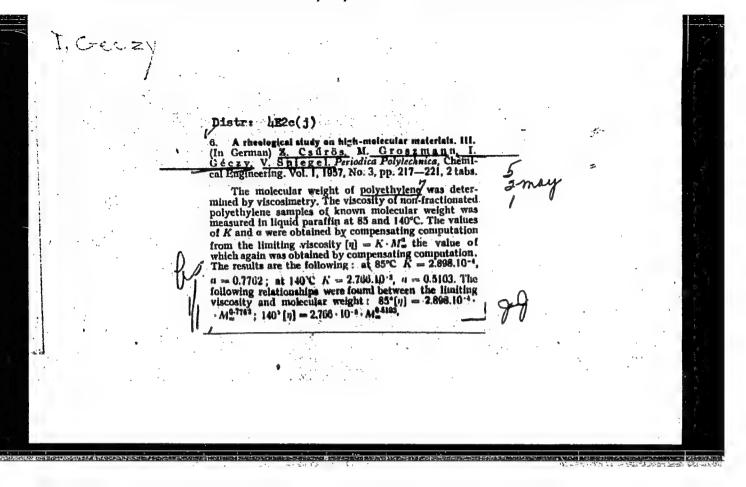






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The second section of the section	A second second	15
Distre 4E2c(j) 1. A cheological study on high-molecular materials. 1. (In German) Z. Csürüs, I. Geczy, M. Grosz-		
mann, K. In has z. Periodrea Polyleranica, Chemical		
13 tales. The flow curves, pour points, elasticity and hardness of typographical ductor rolls made of gelatine and starch were determined by means of a Hoeppler consistemeter. It was found that the Herschel-Bulkley equation		ı
$\left(\frac{\partial_{\gamma}}{\partial t} = A (\mathbf{r} - \mathbf{r}_0)^n\right)$ is valid for the quasi-viscous curves and flow curves of both materials where $n < 1$ for gelatine-based roll materials and $n > 1$ for starch-based substances.		
The starch material stands up to compressive stresses in practice better than the gelatineous substance and the consistency of the former changes considerably less with the increase of temperature. The elastic properties of the starch-containing material are more favourable		
than those of the gelatineous substance since the former undergoes greater immediate and lesser delayed and permanent deformation. The starch-containing roll material is plasto-elastic below 40°C and visco-elastic above this		
temperature. The corresponding characteristic temperature for the gelatineous material is 30°C.		
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	Original Page 1 Meridda, pullydechn. Cham. Ecorg. 1957, 1, No 3, 203-2151 217-221. Magnar tate, abad. Eas. tat. cost. Lord. 1959, 18, No. 1, 67-70. Magnar tate. San. tat. cost. Lord. 1959, 18. Magnar tate. San. actual was made of the effect of rigorous stirring. 1 Membran 1 Magnar Chamistry. 2 Membran 1 Med Zhan - East Zhan - E	dentities of stirring, and ties of storace, on properties of parts properties of the daily philaire series. Me this person destriction of the daily philaire series of the man destriction as and of the rises of the manufaction was and of the rises of the properties of the rises. My entre was measured in the interval 10-200 (for the rises of the manufaction was represented between 0.1:5 or /ess. The value of the manufaction was represented by the control of the contr	research or electing depends on composition of preparation. The lime of whither at latering at the time of preparation. The set starting at the time of preparation. Darations of starting at the season. India of starting at the pasts. India of starting and the season. India of starting and the season. India of starting the season and the deformation she can be season as a season of the season and the season and the season and the season at 2.76 at 18.74 at 19.74	1.56
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I.

HUNGARY/Chemistry of High-Molecular Substances.

: Ref Zhur - Khimiya, No 9, 1958, 31285 Abs Jour

: Rusznak, I., Geczy, I., and Rapasi, M.

Author

: Synthetic Linear Polymers. III. The Development of Methylmethacrylate-Ethylene Glycol-Malein Naphthylate Inst Title

Copolymers which Harden at Room Temperature and Some

of Their Properties.

Macovar Tud Akad Ken Tud Oszt Koczl, 8, No 2-3, 247-252,

1957, (in Hungarian) Orig Pub

Insulating resins hardening at 25° were obtained from Abstract

ethylene Clycol, maleic (I) and phthalic (II) anhydrides, and methylmethacrylate. The ratio of unsaturated polyesters to componer used was 70:30 and the ratio of benzoyl peroxide initiator to diethyl aniline (promoter) was 1:0.25. Optimum chemical resistance is obtained

when the unsaturated polyester fraction of the resin is

Card 1/2

63

" HUNGARY / Physical Chemistry. Kinetics. Combustion. B-9 Explosives. Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76756.

Author : Csueroes, Z., Geczy, I., and Keresztely, T.

Inst : Not given.

Title : Catalytic Studies. VIII. Change in the Reaction

Order in the Hydrogenated Compound During Cata-

lytic Hydrogenation.

Orig Pub: Magyar Tud Akad Kem Tud Oszt Koezl, 9, No 2,

195-205 (1957) (in Hungarian).

Abstract: On the basis of previously published data on the catalytic hydrogenation of cinnamic, maleic, and

catalytic hydrogenation of cinnamic, maleic, and fumaric acid, the authors arrived at the conclusion that in the course of the hydrogenation the order of the reaction in the hydrogenated com-

Card 1/2

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HUNGARY / Physical Chemistry. Kinetics. Combustion. B-9 Explosives. Topochemistry. Catalysis.

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Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76756.

Abstract: pound increases in the majority of cases from 0

to 0.6. In isolated cases when very small amounts of catalyst are used the order of the reaction does not change. For communication XVII see

RZhKhim 1958, 57600.

Card 2/2

KREZY 1. HUNGARY/Chemistry of High Molecular Substances.

I.

Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 49173

Author

: Istvan Rusznak, Istvan Geczy, Endre Ady.

Inst

Title

: Synthetic Linear Polymers. II. Viscosimetric Determina-

tion of Superpolyamide Molecular Weight in Aqueous

Chloral Hydrate Solution.

Orig Pub

: Magyar kem. folyoirat, 1957, 63, No 12, 348-350

Abstract

: The possibility of molecular weight determination of polyanides in 70%-ual chloral hydrate aqueous solution was established. The constants of the dependence equation of the characteristical viscosity on the polymerization degree were computed based on the values of mean polymerization degrees of non-fractionated polyamides measured by the viscosity in m-cresol. The equation has the form $[7]7 = 8.22 \cdot 10^{-2}Pn^{0.5}$. See report 1 in RZhKhim, 1957, 41351.

Card 1/1

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HUNGLHY/Digh Molecular Chemistry.

Mus Jour: Ref Mur-Khim., No 2, 1959, 7027.

Author : IV: Bello, Budolf; Geezy, Istvan. V: Rethy, Eszter; Geczy, Istvan. VI: Geczy, Istvan; Nethy, Eszter.

Inst

Synthetic Linear Pelymers. IV. Changes in Process of Title

Condensation and in Mechanical Properties of Cast Resins from Fhenol-Formaldchyde Plastic Depending on Composition of Reaction Mixture. V. Effect of Tetrallyldiaminodiaryl Activators on Polymerization of Mixture of Nethylmethacrylate with Polymethylmethacrylate in Presence of Benzoyl Perocide. VI. Effect of Concentration of Initiator and Activator on Starting Rate of Block-Polymerization of

Methylmethacrylate.

Orig Pub: Magyar ken. folyoiret, 1957, 63, No 12, 351-357; 1958,

64, No 1, 19-23; 24-29; Makromolek. chem., 1958, 25,

No 3, 176-185; 186-198.

: 1/4 Card

193

HUNGARY/High Molecular Chemistry.

Abs Jour: Ref Zhur-Khim., No 2, 1959, 7027.

IV. The dependence of properties of east resins from phenol-formaldehyde plastic on the molecular ratio of phenol and formaldehyde was studied. It was established that the impact viscosity of a bar with an incision, the hardness, the rupturing elongation and the heat resistance of a resin prepared from a reaction mixture phenol - formaldehyde in the molecular ration of 1:2 are greater than those of resins prepared from said mixtures in the molecular ratio of 1:2 sici. I. The remainded of the above mentioned properties is the greatest in the case of resins prepared from the reaction mixture in the ratio of phenol to formaldehyde equal to 1:2.5 and in the presence of 1-1.95 of the catalyst. Further increase in the amount of the catalyst

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NUMBER / High Molecular Chemistry.

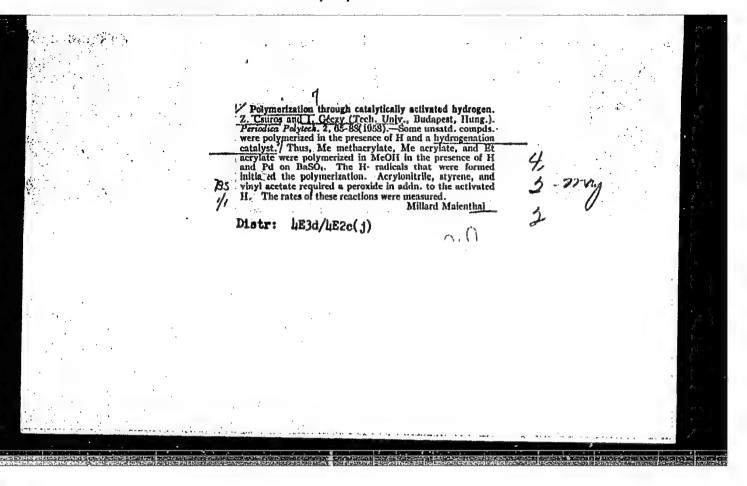
Abs Jour: Ref Zhur-Khim., No 2, 1959, 7027.

influences the mechanical properties of the forming resins but insignificantly.

VI. The block-copelymerization of methylmethacrylate initiated by the system benzoyl peroxide - directlyl-

Card : 3/4

194



Geezy, I.

HUNGARY/Physical Chemistry - Kinetics. Combustion. B-9 Explosions. Topochemistry. Catalysis.

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30579

Author : Cxueroes, Zi, Geczy, I., Zsuffa, B., Erdoes, E.

Inst : Not given

Title: Catalyst Studies. XX. Catalytic Hydrogenation and Polymerization Processes as Competing Reactions. II sic. The Redox Polymerization of Acrylonitrile on Heterogenous Catalysts.

Orig Pub: Magyar Tud Akad Kem Tud Oszt Koezl, 1958, No 4, 415-422; Makromolek Chem, 1958, No 3, 171-179

Abstract: Quantitative relationships in the redox polymerization of acrylonitrile on heterogenous catalysts have been investigated. It has been found that under optimum experimental conditions yields of about 80% can be achieved. The molecular

Card 1/2

HUNGARY/Physical Chemistry - Kinetics. Combustion. B-9 Explosions. Topochemistry. Catalysis.

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30579

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Weight of the product varies, depending on experimental conditions, between 15,000 and 380,000. The effect of catalyst formulation, initial persulfate concentration, and monomer concentration on the course of the reaction has been investigated. Persulfates are the only effective oxidizers and Pd-catalysts were used as the active catalysts. The molecular weight of the product is higher when the reaction is carried out in acid medium rather than in alkaline medium. The product yield is reduced at pH > 7. For Communication XIX see

RZhKhim, 1959, 26512.--S. Rozenfel'd

CIA-RDP86-00513R000514530015-7

B-9 HUNGARY / Physical Chemistry -- Kinetics. Combustion. Topochemistry. datalysis. Explosions.

: Referat Zhur--Khimiya, No. 11, 1959, 37927 Abs Jour

: Csueroes, Z.; Gaczy, I.; and Czuffa, B. : Hungarian Academy of Sciences Author

Inst

: Investigation of Catalysts. XXI. Catalytic Title Hydrogenation and Polymerization Processes as Competing Reactions. III. Kinetics and Mechanism of the Catalytic Redox Polymerization of

Acrylonitrile.

: Magyar Tud Akad Kem Tud Oszt Koezl, 2, No. 4, Orig Pub

423-432 (1958) (in Hungarian); Makromolek Chem, 27, No. 3, 180-191 (1958) (in German)

: The authors have studied the polymerization of Abstract

aqueous acrylonitrile solutions under an atmo-

Card 1/3

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34

CIA-RDP86-00513R000514530015-7 "APPROVED FOR RELEASE: 07/19/2001

Country : Hungary Ι

Category= : High Molecular Chemistry

. us. Jour. : 48340

: Geczy, I.; Rethy, E.

: Rethy, E.
: Hungarian Reademy of Sciences
: Synthetic Linear Polymers.VII. Kinetics of Bulk

Polymerization of Methylmetacrylate Induced by

Systems of Initiators and Activators.

Orig. Pub. : Magyar tud. akad. Kem. tud. oszt. kozl., 1958,

10, No 2, 175-185

: Curves of the reaction of transformation of Abstract methy instances under , in all the instances under study (different initiator-activator systems), at 20 and 40°, are of identical nature: first a steep ascent, then an almost horizontal portion and \sim 10-15% transformation again a steep ascent (polymer was determined by precipitation with light gasoline). In the stage studied by the authors (up to the second ascent) reaction velocity is proportional to the square of monomer concentration (M)2, and there is a linear correlation between length of time and 1/(M). To interprete these facts the authors make the assumption that during the Card: 1/2

Country : Hungary Category : High Molecular (Yanad A	
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initial stage of	the reaction the radicals that	
Instance there has been don't	nduce its termination. For this	
lo 2, 7027 I. Krishtofori	alleacton vi see Azakaim, 1959,	1
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COUNTRY Hungary : High Polymer Chemistry CATEGORY 1959, 50. 77238 ABS. JOUR. : RZKhim., No. 21 : Csueroes, Z., Groszman, M., Geczy, I., and Juhasz, AUCHOR : Hungarian Academy of Sciences IMSI. : Rheological Investigations of High Polymers. IV. TITLE Rheological Studies on Polyvinylchloride Pastes. Part II. Effect of Temperature on Polyvinylchlor-ORIG. PUB. : Magyar Tud Akad Kem Tud Cszt Koezl, 10, No 4, 467-473 (1958); Acta Chim Acad Sci Hung, 19, No 1, : The dependence of the apparent viscosity of PVC ABSTRACT pastes obtained by the use of dialkylphthalates as plasticizers (P) (PYC/P ratios of 60: 40, 50: 50, 40: 60) on the temperature has been investigated in the temperature range 20-60°. It has been shown that the swelling point observed by Elers and Gol'dshteyr for the dilution of PVC suspensions, above which the viscosity snarply increases, also holds for the pastes tested, at lower temperatures (25-40°). At the awalling CARD: 1/5 *ide.

COUNTRY : Hungary CATAGORI : RZKhim., No. 21 1959, No. 77238 ABS. JOUR. ROHTUA INST. TITLE ORIG. PUE. : point the viscosity passes through a minimum. ABSTRACT character of the above dependence is explained theoretically, starting from the concept that the pastes represent heterogeneous systems consisting of the surface-swelling PVC grains as the dispersed phase and P (containing the PVC in solution) as the dispersing medium. For the compositions PVC/P = 40: 60 and 50: 50 the viscositytemperature characteristic is parallel to the viscosity curve of P up to the swelling point, from which it follows that swelling does not CARD: 2/5 348

COUNTRY Hungary CATEGORY 77238 AB3. JOUR. : AZKhim., No. 21 1959, No. 四个语言: IFFO. TITLE oald. PUB. : : occur in the pastes and that the viscosity is ABSTRACT determined by the free P which is present in excess outside the solvation envelope. For the composition 60: 40, the decrease in the viscosity up to the swelling temperature and the increase in viscosity above that temperature are much sharpter, and are explained by the higher percentage of the P bound inside the solvation envelope. An increase in temperature leads to a decrease in the amount of bound P. Above CARD: 3/5

ĭ CCULTRAL : Hungary CATLGORY ABS. JOUR. : RZKhim., No. 21 1959, No. 77238 ROFTUA INST. TITLE ORIG. PUB. : the swelling point the P molecules begin to ABSTRACT penetrate the interior of the FVC grain with a resulting decrease in the amount of free P present. The swelling temperature at which the viscosity goes through a minimum depends on the Pused: It increases as the number of carbon atoms in the alkyl group is increased. In production practice, the PVC paste should be kept at temperatures 10-15° below the swelling point and used at temperatures a few degrees

CARD: 4/5

349

COUNTRY : Hungary I

ABS. JOUR. : AZKhim., No. 21 1959, No. 77238

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ABS. JOUR. : AZKhim., No. 21 1959, No. 77238

COUNTRY : Hungary I

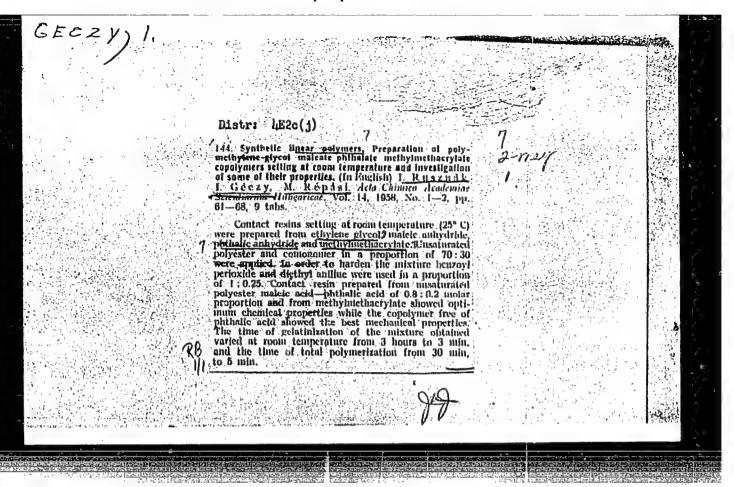
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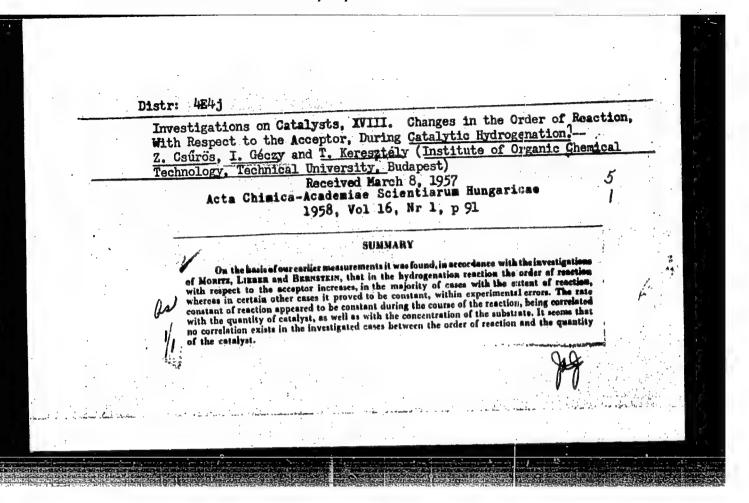
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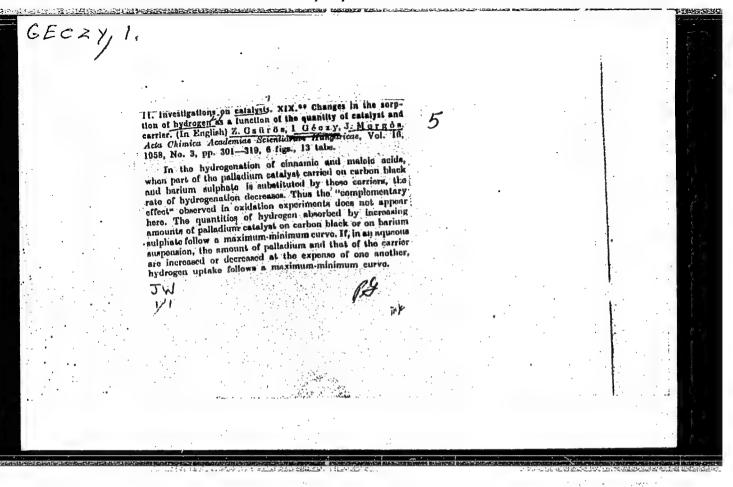
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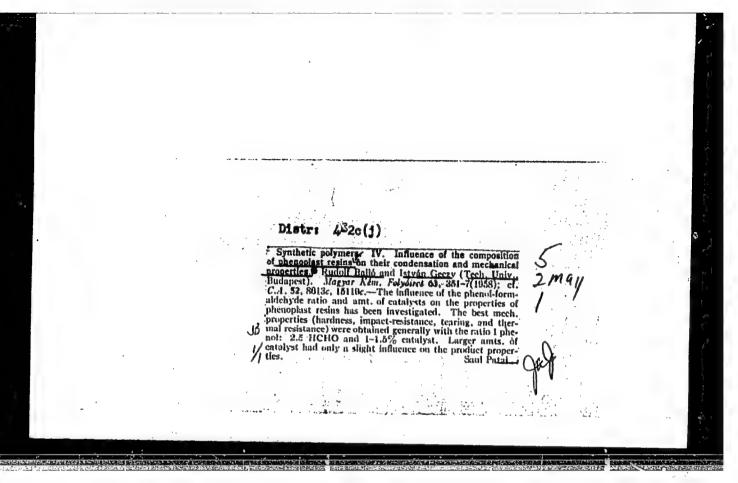


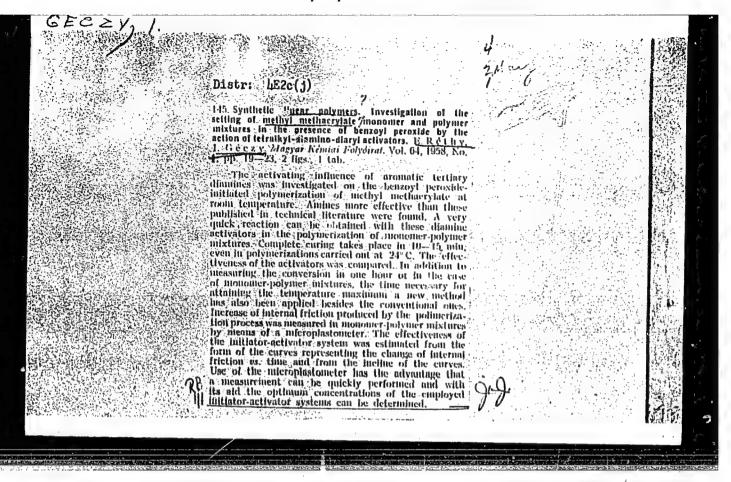


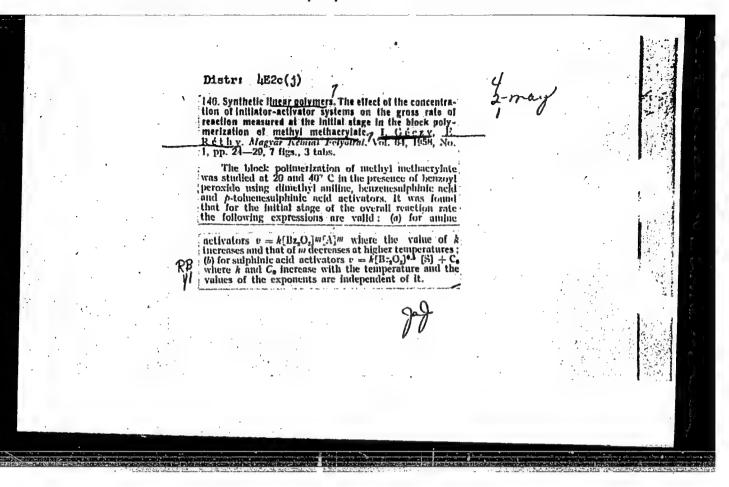


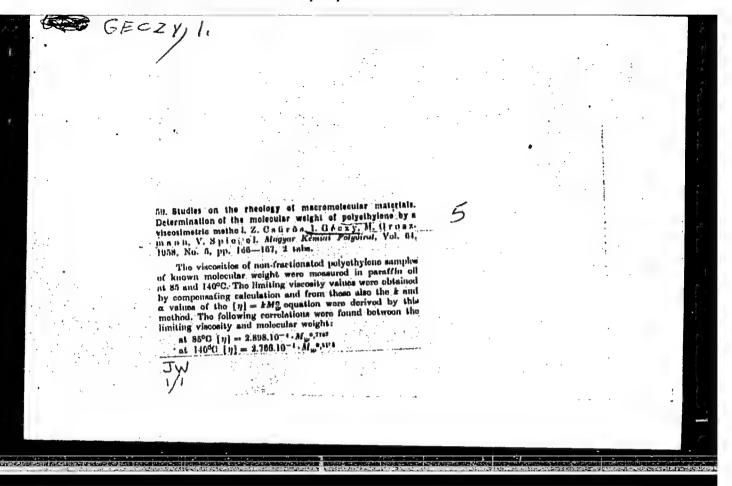
Investigations with catalyste. XX. Catalytic hydrogenation of and polymerization as competitive reactions. 2.

Heterogeneous catalytic oxidation-reduction polymerization of acryonization (J. Cat.) In Zenifa, and E. Heterogeneous catalytic oxidation-reduction polymerization (J. Cat.) In Zenifa, and E. Heterogeneous catalytic oxidation-reduction polymerization as a competitive or the product varied between 15,000 and 830,000 according to the expt. conditions. The influence of the anti-of the heterogeneous catalysts, other of the monomers on the rejection was a detd. Only the persulfates were found to be active among the persoy compats, while of the heterogeneous catalysts only those were found to be effective contage. The contage of the catalysts only those were found to be effective contage of the catalysts only those were found to be effective contage. The polymerization was observed uning the detail of the polymerization was observed uning the detail of the polymerization was found to occur and on the persulfate concur, was observed uning reaction, and the ground the polymerization was found to occur and on the persulfate concur, was observed uning reaction, and the progression of the progression of the progression of the progression was found to occur and on the persulfate concur, was observed uning reaction, and the progression of the pr









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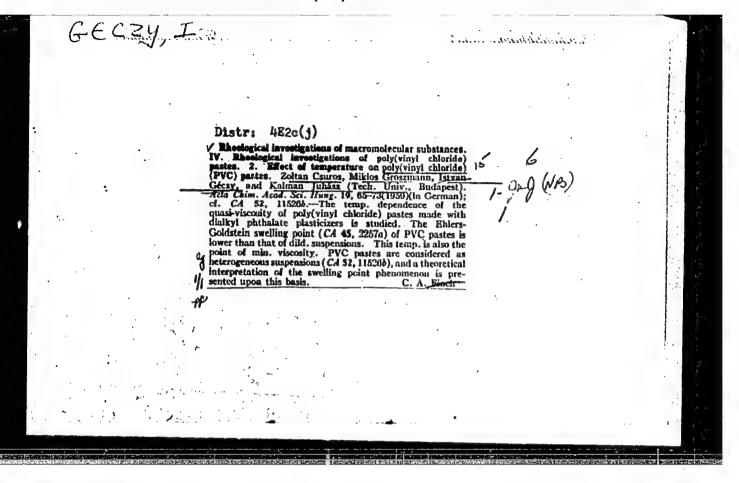
"Synthetic linear polymers. VII. Kinetic process of block polymerization of methyl methacrylate dissolved by initiator-activator systems." In German, p. 37

PERIODICA POLYTECHNICA. (Budapesti Muszaki Egyetem) Budapest, Hungary, Vol. 3, No.,1, 1959

Monthly List of East European Accessions (EEAI) IC, Vol. 8, No. 6, June 1959 Uncl.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514530015-7



RETHY, Eszter (Budapest); GECZY, Istvan, a demiai tudomanyok kandidatusa (Budapest)

Synthetic linear polymers. VIII. Application of metal resinates in the block polymerization accelerated by methyl methacrylate metal redox systems. Kem tud kozl MTA 13 no.2:173-178 °60. (EEAI 9:8)

1. Szerves Vegyipari es Muanyagipari Kutato Intezet, Budapest es Vegyimuveket Tervezo Vallalat, Budapest.

(Polymers and polymerization)

(Gums and resins, Synthetic) (Methyl methacrylate)

(Benzoyl peroxide) (Cyclohexyl hydroperoxide)

(Acetone peroxide) (Tvimethyl benzyl hydroperoxide)

(Benzoin) (Iron) (Lead) (Butyl hydroperoxide)

(Copper) (Cobalt) (Manganese)

CSUROS, Zoltan, akademikus (Budapest); GECZY, Istvan, a kemiai tudomanyok kandidatusa (Budapest); GARA, Miklos, a kemiai tudomanyok kandidatusa (Budapest); GYURKOVICS, Ida (Budapest)

Rheologic investigation of macromolecular substances. VIII. Interaction of dissolved polymer and solvent on the basis of viscosity measurements. Kem tud kozl MTA 13 no.2:139-151 '60. (EEAI 9:8)

1. Muszaki Egyetem, Szerves Kemiai Technologiai Intezet, Budapest. (Solvents) (Viscosity)

KOMUVES, E. (Frau) (Budapest, Muegyetem rakpart 3); GECZY, I., dr. (Budapest I., Kuny D.u.l.)

Synthetic linear polymers, X. Castor oil containing unsaturated polyester resins and their copolymers. Periodica polytechn chem 5 no.1: 25-34 161.

1. Lehrstuhl für die Kunststoff- und Gummiindustrie and der Technischen Universitat, Budapest. Vorgelegt vom Vorstand des Lehrstuhls Dr. Gy. Hardy.

CSUROS, Z., prof. (Budapest XI., Muegyetem rakpart 3.); GARA, M. (Budapest XI., Muegyetem rakpart 3.); GECZY, I. (Budapest IX., Szamuely utca 30-32.)

Investigation of the interaction between dissolved polymers and solvents by means of viscosimetry. Periodica polytechn chem 5 no.2:101-121 '61.

1. Lehrstuhl für Organisch-Chemische Technologie, Technische Universitat, Budapest. (for Gsuros, Gara, Gyurkovics). 2. Vegyimuveket Tervezo Vallalat, Budapest. (for Geory).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514530015-7"

カンは日 数子の

CSUROS, Z., prof. (Budapest XI., Muegyetem rakpart 3.); MORGOS, J. (Budapest XI., Muegyetem rakpart 3.); LOSONCZI, B. (Budapest XI., Muegyetem rakpart 3.); GECZY, I. (Budapest XI., Szamuelly utca 30-32.)

Investigation of correlation between the inhibitor effect and chemical constitution. Periodica polytechn chem 5 no.2:123-137 61.

1. Lehrstuhl für Organisch-Chemische Technologie, Technische Universitat, Budapest. (for Csuros, Morgos, Losonczi) 2. Vegyimuveket Tervezo Vallalat, Budapest. (for Geczy).

SCMOGYI, Agnes (Budapest); OECZY, Istvan, a kemiai tudomanyok kandidatusa (Budapest); DOBO, Janos (Budapest)

Synthetic linear polymers. IX. Radiation hydrated copolymerization in presence of benzoyl peroxide-dimethylaniline. Kem tud kozl MTA 15 no.1:17-28 °61. (EEAI 10:6)

1. Szerves Vegyipari es Muanyagipari Kutato Intezet, Budapest es Vegyimuveket Tervezo Vallalat, Budapest.

(Polymers and polymerization) (Radiation)
(Hydration) (Dimethylaniline) (Benzoyl peroxide)

SOMOGYI, Agnes (Budapest, XIV., Hungaria korut 114.); GECZY, Istvan, dr. (Budapest, I., Kuny Domokos u.l.); DOBO, Janos (Budapest, IIV., Hungaria korut 114.)

Synthetic linear polymers.IX. Acta chimica Hung 33 no.3:327-339

1. Forschungsinstitut für die Plastindustrie, Budapest, und Unternehmen zur Planung chemischer Betriebe, Budapest.

CENY, Istvan, a kemiai tudomanyok kandidatusa

Adsorption of macromolecules. Kem tud kozl MTA 19 no.3:335-353

1. Textilipari Kutato Intezet, Budapest.

GECZY, Tstvan

Synthetic linear polymers.Pt.ll. Magy kem fel; eir 69 no.7:312-317 Jl '63.

1. Textilipari Kutato Intezet, Budapest.

HUNGARY

GECZY, Istvan; Research Institute of the Textile Industry (Textilipari Kutato Intenet), Budapest.

"Synthetic Linear Polymers, XII. Changes in the Refractive Index of Polymer Homologues With Molecular Size."

Budapest, Maryar Kemiai Folyoirat, Vol 69, No 8, Aug 1963, pages 333-336.

Abstract: [Author's Hungarian summary] Eased on the additive property of molar refractivity, as defined by Eisenlohr, the author has shown the following relation to exist between the refractive index and molecular weight of members of polymer homologue series:

 $n^{20} = \frac{a}{M} + b$

where n D is the refractive index, M is the molecular weight and a and b are constants characteristic of the end groups or repeating units. From the values of b of a given polymer homologue series, the molar refractivity values can be determined. Under favorable conditions, this correlation can be developed to a method for molecular weight determination of macromolecules. 2 Eastern European, 8 Western references.

1/1

GECZY, Istvan

Synthetic linear polymers. Pt. 13. Magy kem folyoir 70 no. 2:91-95 F 164.

1. Textilipari Kutato Intezet, Budapest.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514530015-7"

GECZY, Istvan

Synthetic linear polymers.Pt.14. Magy kem folyoir 70 no.3:99-104 Mr '64.

1. Research Institute of the Textile Industry, Budapest.

GECTY, Istvan

Synthetic linear polymers. Pt. 15. Magy kem folyoir 70 no. 4: 156-160 Ap '64.

1. Research Institute of the Textile Industry.

GECZY, Istvan

Synthetic linear polymers. Pts. 16-17, 19. Magy kem folyoir 70 no. 6:242-252 Je '64.

1. Research Institute of the Textile Industry, Budapest.

GECZY, Istvan

Synthetic linear polymers. Pt.21. Magy kem folyoir 71 no.2: 51-54 F '65.

1. Research Institute of Textile Industry, Budapest. Submitted May 29, 1964.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514530015-7"

CETSI, I. [Geczy, I.]

Dependence of the refraction index on the intermediate molecular weight in the polymer homologous series of some high molecular compounds. Vysokom. soed. 7 no.4:642-646 Ap '65.

(MIRA 18:6)

1. Nauchno-issledovatel'skiy institut tekstil'noy promyshlennosti,
Budapesht, Vengriya.

ACC NR: #16031105 SOURCE CODE: HU/2502/65/043/002/0131/0140 AUTHOR: Geczy, Istvan—Getsi, I. (Doctor) ORG: Research Institute of the Textile Industry, Budapest (Textilipari Kutatointezet) TITLE: Synthetic linear polymers. XXII. Dependence of the specific polar properties of polymer homologue compounds on the size of the molecule SOURCE: Academia scientiarum Hungaricae. Acta chimica, v. 43, no. 2, 1965, 131-140 TOPIC TAGS: linear polymer, dipole moment ABSTRACT: The equation, $\Psi_{sp} = A + b$ (where Ψ_{sp} is a specific property, M the molecular weight, while a and b are constants), derived earlier by the author, was applied to the description of the specific polar properties of macromolecules. In case of macromolecules without dipole moment \uparrow the term $\xi - 1/\xi + 2$. 1/d is to be introduced into the former equation as specific property sp; with dipole moment, μ²/M is applied. It follows from the use of this formula that the dipole moment of alcohols and similar type compounds is independent of the structure and size of the molecule within the same group of compounds under consideration. Based on the value of constant b of the equation which is characteristic of the repeat chain members, the mean dipole moments of the repeating units of polyethyl siloxanes, polymethyl (acetoxymethyl) hexamethylsiloxanes and polyethylene glycols (0.62, 1.18 and 1.05 D, respectively) were given. Based on the results, macromolecules can be classified into three groups with respect to polar properties: $\mu = 0$; $\bar{\mu} \neq f(M)$; and $\tilde{\mu} = f(M)$. Orig. art. has: 5 figures, 6 formulas and 2 table. [Based on author's Eng. abst.] [JPRS: 33,540] SUB CODE: 07, 20 / SUBM DATE: 23Sep64 / ORIG REF: 009 / SOV REF: 003 OTH REF: Card 1/1

L 47420-66 EAP(1/T RM -SOURCE CODE: HU/0005/65/071/012/0551/0556 GECZY, Istvan; Research Institute of the Textile Industry (Textilipari Kutato Interet), Budapest. "Synthetic Linear Polymers XXIII. Comparison of Some Specific Limiting Values of Linear and Cyclic Polymer Homologue Oligomer Compounds. This paper was presented at the International Macromolecular Symposium held in Prague on 4 September 1965.7 Budapost, Magyar Kemiai Folyoirat, Vol 71, No 12, Dec 65, pages 551-556. Abstract: [Authors' German summary modified] Examination of the equation valid for linear polymer homologue compounds, indicated b, that it can be expanded to represent cyclic polymer homologue compounds as well. 4 sp represents some "specific" property which can be derived from some additive quantity, M = molecular weight, while a characterizes implicitly the end groups and b explicitly the members. of the chain. In cases of cyclic polymer homologue compounds when its value is other than 0, the constant a can not be evaluated and can only be looked upon as an empirical constant. The constant b is characteristic of the chain members in this case as well and, apart from the case of the specific square dipole moment, can be evaluated and calculated just as in the case of a linear polymer homologue compound. In connection with the dipole moment, it follows from this phenomenon that, in the case of polymethyl-siloxanes, the chain member present in the ring has a smaller torsion than the corresponding linear one. Orig. art. has: 10 figures, 3 formulas and 3 tables. [JFRS: 34,518] TOPIC TAGS: linear polymer, oligomer, siloxane SUB CODE: 07 / SUBM DATE: lOMay65 / ORIG REF: 010 / SOV REF: 002 / OTH REF: 003 0921 1509

ROBICSEK, Ferenc, dr.,; GECZY, Janos,

Hew type of manometric registration. Orv. hetil. 96 no.24:664-665
12 June 55.

1. A Budapesti Orvostudomanyi Mgyetem Sebesztovabbrepzo
Klinikajanak (Igazg.: Littmann Imre dr. egyet tanar)
kozlemenye.

(MANOMETER)

MESZAROS, Istvan; NEMES, Mikaly; SAS, Bela; GECZY, Karoly

Autumn agricultural work. Mesogasd techn 3 no.10:1-3 '63.

l. Foldmuvelesugyi Miniszterium Gepesitesi es Gepallomasi Foigazga tosaganak malyettes vozetoje (for Meszaros). 2. Mesogazdasagi Gepjavito Troest igazgatoja (for Nemes). 3. Georgrad megyei Tanacs Vegrehajto Bizottsaga Mezogazdasagi Osztaly vezetoje (for Sas). 4. Foldmuvelesugyi Miniszterium Allami Gazdasagok Foigazgatosaganak osztalyvezetoje (for Geczy).

GECZY, L.

CECZY, I. Sulfur balance from distillation of brown coal and processing of tar at low temporatures. p. 25.

Vol. 11, No. 1, Jan. 1956 FACYAR KEMIKUSCK LAPJA. TECHNOLOGY Eudapest, Hungary

So: East European Accession, Vol. 5, No. 5, May 1956

HUNGARY/Chemistry of High Molecular Substances.

I

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72806.

Author : Z. Gsuros, L. Geczy, M. Groszmann, K. Juhasz.

Inst

Title : Rheological Study of Macromolecular Substances.

I. Comparison of Properties of Printer's Starch

and Gelatin Roller Masses Based on Their Theological

Behavior.

Orig Pub: Period. polytechn., 1, No 2, 105-129.

Abstract: The rheological properties of printer's roller masses based on starch and gelatin were studied. The measurements were carried out with a Heppler consistemeter. The highest and the lowest points of the flow curve, the viscosity and the elasticity of used masses were determined. Their rheological

Card : 1/3

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HUNGARY/Chemistry of High Molecular Substances.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72806.

classification was carried out. The flow curves of both the substances follow the equation (Herschel, Bulkley, Kolloid-Z., 1926, 39, 291) with the value of n less than 1 in the case of gelatin and more than 1 in the case of starch. The consistency of gelatin masses changes more with the temperature changes than the consistency of starch masses. The connection of the apparent viscosity of masses with the shearing stress was investigated, and the phenomenon of dilatancy was established in the case of starch masses. The dependence of elastic properties of these masses on the temperature was also studied. It was found that starch masses are harder than the gelatin ones. The starch masses have plasto-elastic properties at temperatures below 40° and visco-elastic properties at temperatures above

Card : 2/3

"APPROVED FOR RELEASE: 07/19/2001 CIA-RI

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HUNGARY/Chemistry of High Molecular Substances.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72806.

40°. The gelatin masses are visco-elastic at temperatures above 30° and plasto-elastic at temperatures below 30°.

Card : 3/3

GECZYEE-MACY, Agnes, Dr.

Therapeutic and epidemiological significance of the virulence of isoniazid-resistant bacteria. Tuberkulozis 10 no.10-12:241-243 Oct-Dec 57.

1. A III. ker. tbc. gondozo intezet (kozponti igazgato-foorvos: Szakkay Antal dr., vezeto foorvos: Hajnal Tibor dr.) kozlemenye. (ISONIAZID, eff.

on M. tuberc., decreased virulence of resistant bact. (Hun))
(MYGORACTERIUM TURERCULOSIS, eff. of drugs on
isoniazid, decreased virulence of resistant bact (Hun))

GAL'CHENKO, G.L.; GEDAKYAN, D.A.; TIMOFFYEV, B.I.; SKURATOV, S.M.

Standard heats of formation of ZrCl₄ and HfCl₄. Dokl. AN SSSR
161 no.5:1081-1084 Ap '65.

1. Submitted October 10, 1964.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514530015-7

24.6720

s/058/62/000/004/133/160 A061/A101

AUTHORS:

Begiashvili, G., Gedalin, E.

TITLE:

Cherenkov radiation of a particle moving along the axis of a cylindrical waveguide filled with an anisotropic ferrodielectric

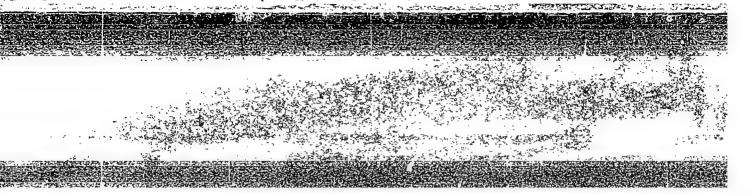
PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 15, abstract 4Zh98 ("Tbilisis universitetis shormebi, Tr. Tbilissk. un-ta", 1960,

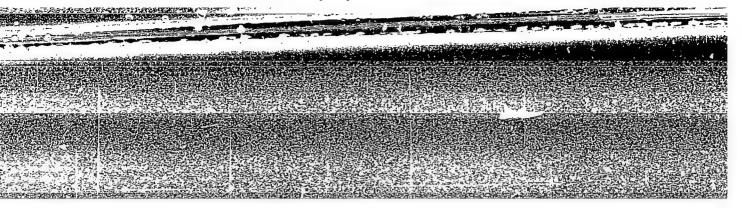
v. 86, 285 - 289, Georgian; Russian summary)

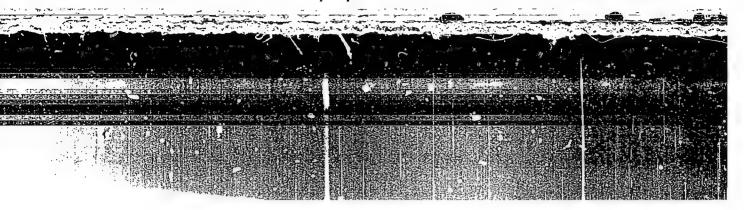
The Cherenkov radiation of a charged particle moving in a cylindrical waveguide is considered. It is assumed that the waveguide is filled with an anisotropic ferrodielectric, and that its axis coincides with the optical axis of the crystal. For simplicity, the case of the particle moving along the axis of the waveguide is considered.

[Abstracter's note: Complete translation]

Card 1/1







24(5) AUTHORS: Begiashvili, G. A., Gedalin, E. V. sov/56-35-6-29/44 TITLE: On the Motion of a Charged Particle in an Anisotropic Medium (O dvizhenii zaryazhennoy chastitsy v anizotropnoy srede) PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1958, ABSTRACT: The energy losses of charged particles moving in an anisotropic dielectric have already been investigated (Refs 1-3). Sitenko and Kolomenskiy (Refs 4, 5) investigated the generalized case in which the medium is assumed to be optically active (Eyroelectric anisotropic medium). Pafomov (Ref 6) investigated the Cherenkov radiation in an anisotropic ferrite by employing a method developed by Ginzburg (Ref 1) for the investigation of Cherenkov radiation in an anisotropic dielectric. In the present paper the components of the electromagnetic field and the energy losses of the charged particle moving in a medium with double anisotropy (E and μ are anisotropic) are investigated by means of the method developed by Fourier (Fur'ye) (Ref 5). Besides, the medium is assumed to be gyro-Card 1/3 tropic with respect to its electric and magnetic properties

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On the Motion of a Charged Particle in an Anisotropic Medium

(Ref 7). This investigation is of interest in connection with the application of anisotropic ferrodielectrics for the purpose of producing microradiowaves. The authors proceed from the representation of the electromagnetic field in the medium in which a point charge q moves with the velocity v as a Maxwell (Maksvell) system of equations. The latter is solved by the Fourier method. First, the motion of a point charge in an optically active uniaxial crystal with given tensors ϵ_{ik} and μ_{ik} is investigated. The formulae obtained are further investigated for the simple case in which the point charge moves along the optical axis. Finally, the case in which the point charge moves in the a direction that is vertical to the optical axis of the crystal is dealt with. In all cases expressions are derived for the total energy losses. In conclusion, the authors thank G. R. Khutsishvili for his valuable advice and directives. There are 7 references, 6 of which are Soviet.

Card 2/3

sov/56-35-6-29/44 On the Motion of a Charged Particle in an Anisotropic Medium

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet

(Tbilisi State University)

SUBMITTED: June 28, 1958

Card 3/3

24(3) AUTHORS:

Begiashvili, G. A., Gedalin, E. V.

SOV/56-36-6-52/66

TITLE:

The Cherenkov Radiation of a Magnetic Dipole in an Anisotropic Medium: (Cherenkovskoye izlucheniye magnitnogo dipolya v anizotropnoy srede)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 6, pp 1939-1940 (USSR)

ABSTRACT:

The Cherenkov radiation of a punctiform magnetic dipole in an isotropic medium has already been frequently investigated (Refs 1-5). The authors of the present "Letter to the Editor" carried out similar investigations of anisotropic and gyrotropic media. By basing on the ϵ^{ik} and μ_{ik} -tensors, the energy losses (the moment μ_0 is assumed to lie in the direction of motion) occurring as a result of Cherenkov radiation on a dipole moving along the optical axis with the velocity ν are given by rather voluminous equations. For an anisotropic dielectric ($\mu_1 = \mu_3 = 1$) the radiation intensity differs from that of the isotropic dielectric only by the substitution of ϵ_1 for ϵ . ϵ_3 does not figure in the final result. The formula

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for the isotropic case coincides with the well-known

The Cherenkov Radiation of a Magnetic Dipole in an Anisotropic Medium

SOV/56-36-6-52/66

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expression derived by I. M. Frank (Ref 1). The authors finally thank N. M. Poliyevktov-Nikoladze for his interest in this investigation. There are 5 references 4 of which are Soviet.

ASSOCIATION:

Tbilisskiy gosudarstvennyy universitet (Tbilisi State University). Institut fiziki Akademii nauk Gruzinskoy SSR (Physics Institute of the Academy of Sciences, Gruzinskaya SSR)

SUBMITTED:

February 27, 1959

Card 2/2

24,2500

S/056/60/038/06/04/012 B006/B056

AUTHORS:

Begiashvili, G. A., Gedalin, E. V.

TITLE:

Cherenkov Radiation of Dipole Moments in a Medium With Spatial Dispersion

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960, Vol. 38, No. 6, pp. 1735-1739

TEXT: The Cherenkov.radiation of charged particles in a medium with spatial dispersion has repeatedly been investigated; the present paper deals with the energy losses of particle clusters to Cherenkov radiation, 25 where it is assumed that the particles have electric and magnetic dipole moments and are in an isotropic non-gyrotropic medium with spatial dispersion. Further, the Cherenkov radiation of a closed current-carrying ring in such a medium is investigated. The present investigation may be useful for studying the possibilities of inciting new waves by means of the Cherenkov effect, which occur when spatial dispersion is taken into account. The authors use the mathematical symbols from Refs. 1 and 3. In a range near the natural frequency of the medium $E = (1/\epsilon_0 + \beta n^2)\overline{D}$,

Card 1/4

Cherenkov Radiation of Dipole Moments in a Medium With Spatial Dispersion

S/056/60/038/06/04/012 B006/B056

and the energy losses of an arbitrarily orientated electric dipole to

Cherenkov radiation are given by
$$dF = \frac{\omega^3 d\omega}{c^2 v} \sum_{i} \left\{ p_z^2 + \frac{p_z^2}{2} \left(\frac{v^2}{c^2} n_i^2 - 1 \right) \right\} \left(1 - \frac{c^2}{v^2 n_1^2} \right) \left| 1 + \beta n_1^4 \right|^{-1}, \quad n_{1,2}^2 = -1/\epsilon_0 \beta \pm \sqrt{(1/\epsilon_0 \beta)^2 + 1/\beta}; \text{ Cherenkov} \right|$$

radiation of a frequency ω occurs only if $\mathbf{v} > c/n_i(\omega)$, and forms two cones for which the condition $\cos v_i = c/vn_i(\omega)$ holds. Here, v_i is the angle between the direction of motion of the dipole (Oz) and the radiation. As already shown by \mathbf{v} . L. Ginzburg, one of the roots of n_i^2 is always smaller than unity at $\beta > 0$, and Cherenkov radiation propagates on the surface of the "ordinary" cone; at $\beta < 0$, the condition $\mathbf{v} > c/n_i(\omega)$ is satisfied for both roots, and Cherenkov radiation may propagate on the surfaces of both cones. For this case, the intensity

Card 2/4

Cherenkov Radiation of Dipole Moments in a Medium With Spatial Dispersion

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distribution of Cherenkov radiation among the two cones is investigated (I_1 - radiation intensity on the "ordinary" cone, I_2 - on the "new" cone), and equation (6) is given. At $\mathcal{E}_0^2|\beta| \ll 1$ and $n_2^2 \gg n_1^2$, $I_2/I_1 \ll 1$ for dipoles orientated in the direction of motion, i.e., Cherenkov radiation occurs nearly entirely only on the ordinary cone, and for dipoles orientated perpendicular to the direction of motion, $I_2/I_1 \sim 1$. When investigating the Cherenkov radiation of magnetic dipoles, a difference is made between current- and "true" dipoles; such dipoles are described as "true" as form magnetic poles. For the frequency range dealt with here, dF is given by equation (7) and (8), respectively, for these two types of dipole. For a current magnetic dipole $I_2/I_1 \sim 1$ for every orientation at $I_2/I_1 \ll 1$, for the "true" magnetic dipoles, if the moment is in the direction of motion, $I_2/I_1 \sim 1$, and if it is perpendicular to it, $I_2/I_1 \gg 1$. For a current-carrying ring moving through the medium (I_0 - amperage, a - radius) dF is given by

Card 3/4

Cherenkov Radiation of Dipole Moments in a Medium With Spatial Dispersion

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equation (9) if the plane of the ring is perpendicular to the direction of motion. When $a \to 0$ this formula goes over into that for a magnetic dipole. The authors finally thank N. M. Poliyevktova-Nikoladze for her interest in this investigation. There are 4 Soviet references.

ASSOCIATION: Tbilisskiy gosudarstvennyy universitet (Tbilisi State
University). Institut fiziki Akademii nauk Gruzinskoy SSR

(Physics Institute of the Academy of Sciences of the
Gruzinskaya SSR)

SUBMITTED: July 13, 1959 (initially) and February 17, 1960 (after revision)

Card 4/4

S/056/61/040/001/019/037 B102/B204

3.9000 (1041,1109,1155,1327) AUTHOR:

Gedalin, E. V.

TITLE:

The dependence of extensive atmospheric showers on the

altitude

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40,

no. 1, 1961, 178-179

TEXT: From experiments carried out by the Bristol Group, the author concludes that the absolute amount of energy transferred to pions in collisions between nucleons with $E_N \ge 10^3$ Bev and nuclei is constant and equal to

~50 Bev (in the c.m.s.). In consideration of this fact, the author studied the dependence of extensive atmospheric showers on the altitude, and gives a brief report on the results obtained. He further assumes that in collisions between pions and nucleons with $E_N < E_p$ ($E_p = 5.10^3$ Bev -

threshold energy) and nuclei, the pions carry away a constant part of the energy of the incident particles. When studying the interaction between

Card 1/3

The dependence of extensive...

S/056/61/040/001/019/037 B102/B204

X-particles and nuclei it is possible to assume that either the pions in the c.m.s. carry away an absolutely constant energy fraction if $\bar{E}_X > E_p$, or a constant fraction of the energy of the incident particle if $E_{\chi} < E_{p}$, or that the fraction carried away by the pions at any value of $\mathbf{E}_{\mathbf{X}}$ is a constant fraction of the energy of the incident particles. Using data of the Bristol Group, brief considerations concerning the spectrum of secondary particles in high-energy nuclear interactions $(dn/dE \sim E^{-1-\delta})$, $\delta = 1/2$ show that the former assumption is not in agreement with the experiment. If in collisions of nucleons with nuclei the pions carry away an absolutely constant energy in the c.m.s., it is recessary, in order to be able to explain the dependence of extensive atmospheric showers on the altitude. to assume that the X-particles produced together with these pions in such collisions (K-mesons are mainly concerned here), carry away the major part of secondary particle energy and transfer a constant part of their energy to pions in each of the following collisions. In order to obtain agreement with the experiment, one must assume that in the secondary interactions, particles that are not pions, carry away the greater part of energy in

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The dependence of extensive...

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nucleon-nucleus collisions, and a constent fraction of the energy of the incident particles is transferred to ions. The author thanks I. L. Rozental' for his instructions in the course ?? the work, and G. I. Zatsepin for discussing the results. There are 3 Soviet-bloc references.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR (Institute of Physics, Academy of Sciences Gruzinskaya SSR)

SUBMITTED: July 1, 1960

Card 3/3

S/056/62/043/005/021/058 B102/B104

AUTHOR:

Gedalin, E. V.

TITLE:

Electron-photon showers produced by high-energy muons

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,

no. 5(11), 1962, 1697-1700

TEXT: The integral spectra of electrons and photons in showers generated by muons of $E_{\perp} > 10^{12}$ ev are calculated taking account of the production of electron-positron pairs and the muon bremsstrabling. Formulas are derived for the number of electrons and photons produced by a single muon, which is considered as a constant source of these. Electrons and photons are assumed to be generated only by direct pair production and by bremsstrahlung. The calculations are based on the cascade theory. The results show that in its first stage the shower develops as it would be generated by an electron of the energy E_{μ}/m . At a depth $\sim 2\ln(E_{\mu}/\beta)$ it is already in equilibrium with the radiation generated by itself. For $E_{\rm m}/\beta \sim 10^6-10^8$ this depth equals 22 - 32t for an electron and 25-35t for a shower Card 1/2

S/056/62/043/005/021/058 B102/B104

generated by muon bremsstrahlung t is the length of an electron radiation unit. For greater depths the number of charged particles is $\sim\!\!200$ in the ground and $\sim\!\!100$ in lead (E $_{\mu}/\beta\sim\!\!10^6$ ev). Finally it is shown that the contribution of muonic σ -electron production to the shower formation is small for E $_{\mu}$ > 10 12 ev.

ASSOCIATION: Institut Liziki Akademii nauk Gruzinskoy SSR (Institute of

Physics of the Academy of Sciences Gruzinskaya SSR)

SUBMITTED: April 13, 1962

Electron-photon showers produced by ...

Card 2/2

ACCESSION NR: AT3012959 / S/2749/62/008/000/0115/0123
AUTHOR: Gedalin, E. V.

TITLE: Analysis of altitude variation of extensive air showers for different models of nuclear interactions at high energies

SOURCE: AN GruzSSR. Institut fiziki. Trudy*, v. 8, 1962, 115-123

TOPIC TAGS: extensive air showers, cosmic rays, elementary particle interactions, nuclear interactions, pions, kaons, antinucleons, altitude variation

ABSTRACT: Account is taken of the fact that at high energies (>10¹⁴ eV) the absolute value of the c.m.s. energy transferred to pions in collisions between nucleons and nuclei is approximately constant, as is the over-all inelasticity coefficient (owing to the increase of energy transfer not to the pions but to other types of particles -- X particles). Various assumptions are made with respect to the interaction between the X particles and the nuclei. To explain the altitude variation of extensive air showers it is necessary to assume

Card 1/2

ACCESSION NR: AT3012959

that the X particles carry away a larger fraction of the secondary particle energy, and that in each succeeding collision they transfer a constant fraction of this energy to the pions. Most X particles are probably K mesons, but the effect of antinucleons cannot be excluded. "The author is grateful to I. L. Rozental' for directing the work and G. T. Zatsepin for a discussion of the results and for valuable remarks." Orig. art. has: 20 formulas.

ASSOCIATION: Institut fiziki AN GruzSSR (Physics Institute, AN GruzSSR)

SUBMITTED: 00 DATE ACQ: 040ct63 ENCL: 00

SUB CODE: PH NO REF SOV: 003 OTHER: 005

Card 2/2

L 19626-63

EVT(m)/BDS AFFTC/ASD

ACCESSION NR:

AP3007077

S/0056/63/045/003/0565/0575

AUTHORS: Gedalin, E. V.; Gerasimova, N. M.

TITLE: WFluctuation of the number of particles in electron-photon showers produced by high-energy muons

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 565-575

TOPIC TAGS: cosmic ray, electron-photon shower, particle-number fluctuation, muons of high energy

ABSTRACT: In order to remove the ambiguity in the determination of the muon spectrum from the burst spectrum, simple expressions are obtained for the mean square number of particles in electron-photon showers produced by high-energy muons, using the cross sections of the real processes that participate in the production of the cascade. A solution independent of the radiation thickness unit is obtained under certain limitations. "The authors are grateful to I. L.

Card 1/2

L 19626-63

ACCESSION NR: AP3007077

Rozental' and to G. Ye. Chikovani for discussions." Crig. art. has

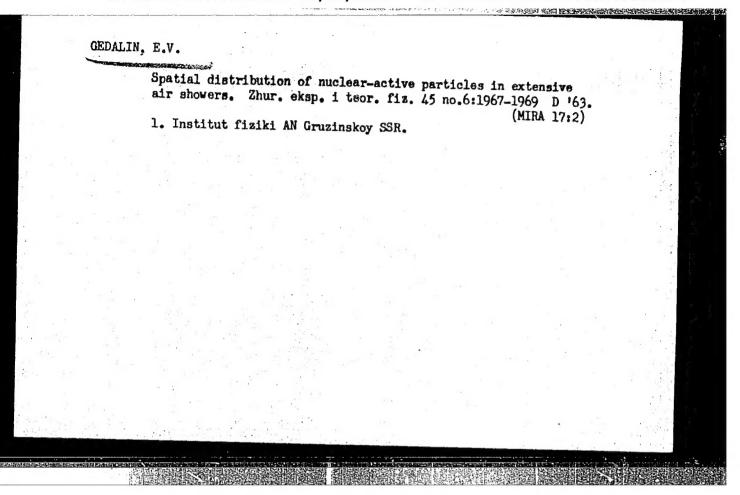
5 figures and 22 formulas.

ASSOCIATION: Institut fiziki Akademii nauk Gruzinskoy SSR (Phys. Inst. Acad. Sci. Georgian SSR); Fizicheskiy institut im. P. N.

Lebedeva Akademii nauk SSSR (P. N. Lebedev Inst. Acad. Sci. SSSR)

SUBMITTED: 19Feb63 DATE ACQ: 080ct63 ENCL: 00

SUB CODE: PH NO REF SOV: 011 OTHER: 004



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CIA-RDP86-00513R000514530015-7

ACCESSION NR: AR404820

\$/0058/64/000/005/vo25/vo25

SOURCE: Ref. zh. Fizika, Abs. 5V191

AUTHOR: Gedalin, E. V.

TITLE: Concerning the role of K-mesons in the development of extended air

CITED SOURCE: Tr. In-ta fiz. AN GruzSSR, v. 9, 1963, 53-54

TOPIC TAGS: air shower, K meson

TRANSLATION: Two experimental methods of clarification of the K-meson's role in the development of extended air showers are offered: measurement of the energy of the μ -component of extended air showers and polarization of μ mesons in showers.

SUB CODE:

ENCL:

Card 1/1

E. V. GEDALIN Fluctuations of Soft Component Generated by Muons under large Absorber Thickness. report submitted for the Sth Intl. Conf. on Cosmic Rays (IUPAP), Jaipur, India, 2-14 Dec 1963

GEDALIN, E.V.

Fluctuations of the soft component generated by //-mesons beneath large absorbing thicknesses. Izv. AN 2SSR. Ser. fiz. 28 no.ll:1873-1875 N '64. (MIRA 17:12)

1. Institut fiziki AN Gruzinskoy SSR.